

SV3050



Vortex flow meter

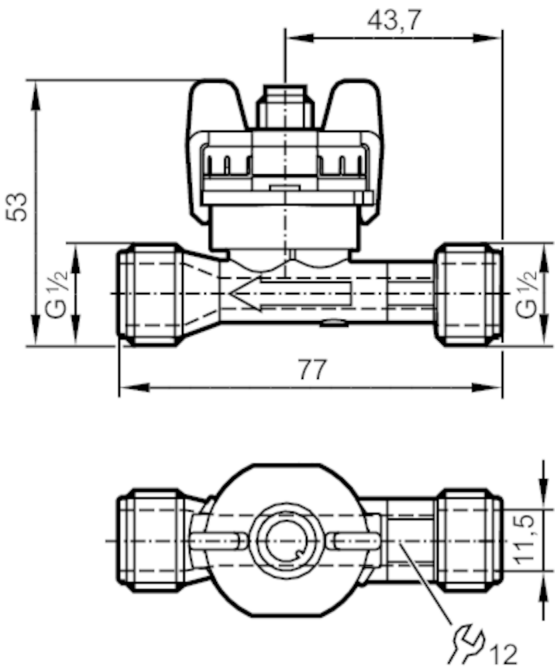
SVM12XXD0KG/US-100

phase-out article

Discontinuation date: 12/31/2025

Alternative articles: SV3051

When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1	
Measuring range	0.5...10 l/min	0.074...1.474 m/s
Process connection	threaded connection G 1/2 external thread DN6	

Application

Special feature	Gold-plated contacts	
Application	for industrial applications	
Installation	connection to pipe by means of an adapter	
Media	water; glycol solutions; coolants	
Medium temperature [°C]	-40...100	
Min. burst pressure	25 bar	2.5 MPa
Pressure rating	12 bar	1.2 MPa
Note on pressure rating	up to 40 °C	

Electrical data

Operating voltage [V]	8...33 DC	
Min. insulation resistance [MΩ]	100; (500 V DC)	
Protection class	III	
Power-on delay time [s]	< 2	



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Measuring principle	Vortex	
Inputs / outputs		
Number of inputs and outputs	Number of analogue outputs: 1	
Outputs		
Total number of outputs	1	
Output signal	analogue signal	
Number of analogue outputs	1	
Analogue current output [mA]	4...20; (Q [l/min] = 0,625 x (I - 4 mA))	
Max. load [Ω]	< (Ub - 8 V) / 20 mA; Ub = 24 V: 800	
Measuring/setting range		
Measuring range	0.5...10 l/min	0.074...1.474 m/s
Accuracy / deviations		
Flow monitoring		
Accuracy (in the measuring range)	Q < 50 % MEW: < 1 % MEW / Q > 50 % MEW: < 2 % MW; (water)	
Repeatability	0,2; (% of the final value)	
Response times		
Flow monitoring		
Response time [s]	0.5	
Operating conditions		
Ambient temperature [°C]	-15...85	
Storage temperature [°C]	-30...85	
Protection	IP 65	
Cavitation	P(absolute) discharge / P(difference) > 5.5 to avoid cavitation	
Tests / approvals		
EMC	EN 61326-2-3	
Shock resistance	DIN EN 60068-2-27	30 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	with water / 10...61 Hz 1 mm
		with water / 61...2000 Hz 2 g
MTTF [years]	380	
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data		
Weight [g]	67	
Housing	rectangular	
Dimensions [mm]	77 x 30.22 x 53	
Materials	PA 6T	
Materials (wetted parts)	ETFE; PA 6T; FKM	
Tightening torque [Nm]	12	
Process connection	threaded connection G 1/2 external thread DN6	
Remarks		
Remarks	MW = measured value	
	MEW = Final value of the measuring range	
Pack quantity	1 pcs.	

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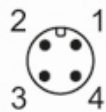


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Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



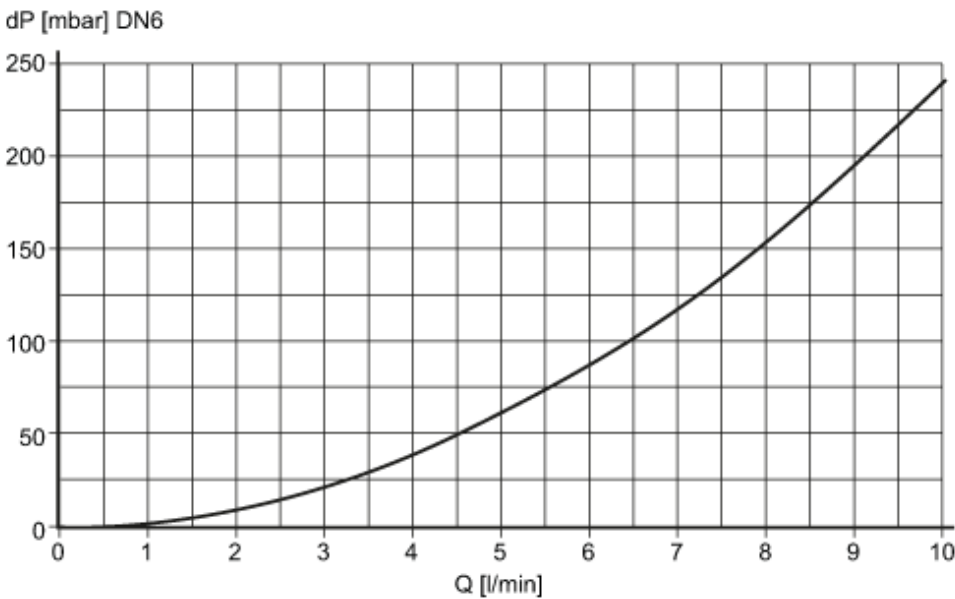
Connection



OUT: analogue output
colours to DIN EN 60947-5-2
Core colours :
BN = brown
WH = white

Diagrams and graphs

Pressure loss



dP Pressure loss
Q volumetric flow quantity

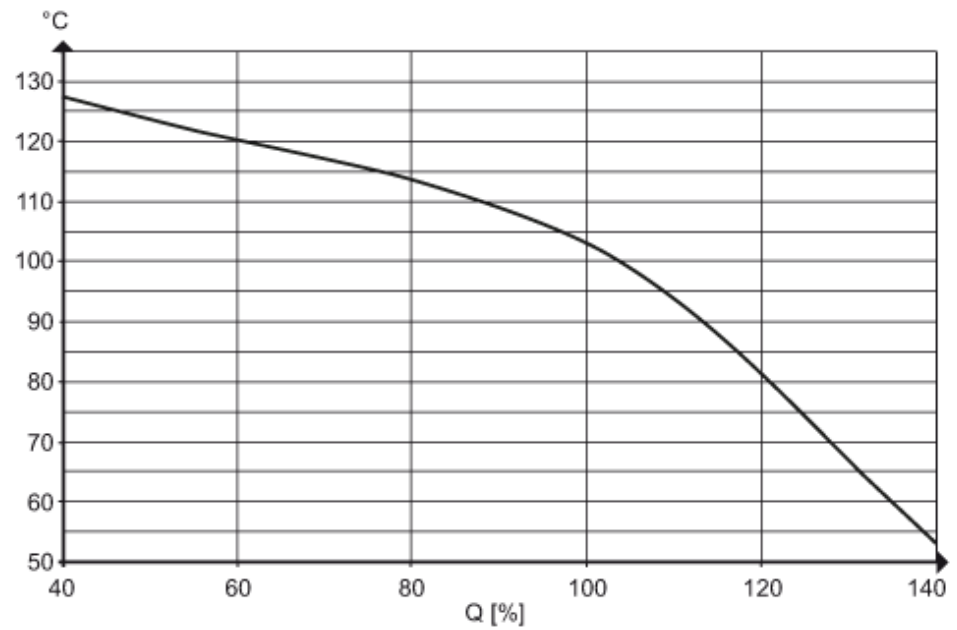
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min. life 10 years referred to flow
and high medium temperatures



pressure rating (bar)

